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2

PAGE = 1 OF 1 TO DOCUMENTS

1 OF 000063137684 DOCUMENT=

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APPLICANT SUMITOMO CHEM CO LTD

INVENTOR NAKAMURA KEIKO

C12N15\00 A01N63\00 C12N1\00 C12P21\02 (C12P21\02 C12R1:19) IPC CHIMERA INSECTICIDAL PROTEIN OF BACILLUS THURINGIENSIS

TITLE PURPOSE : To obtain a chimera insecticidal protein gene, by cleaving ABSTRACT

a gene capable of coding two species of insecticidal proteins of Bacillus thuringiensis with a restriction enzyme and replacing the

respective corresponding regions.

CONSTITUTION : A gene capable of coding 125 KD insecticidal protein and 130 KD insecticidal protein of Bacillus thuringiensis subsp. aizawai IPL strain is cleaved with restriction enzymes KpnI and HindIII to provide respective three regions of base Nos. (1-2174),

DOCUMENTS

2 OF PAGE = (2175-2744), (2745-3465) and (1-2174), (2175-2822) and (2823-3528)and the respective regions of base Nos. (1-2174) are then cleaved with EcoRI and EcoRV to afford three regions of base Nos. (1-994), (995-1567) and (1568-2174). Thereby the respective five regions are obtained. The corresponding regions (one of the three or five regions) of both genes are replaced to construct a chimera insecticidal protein gene. A microorganism transformed with a gene expression plasmid containing the above- mentioned genes is cultivated to afford the aimed chimera insecticidal protein effective against diamondback moth (Plutella xylostella) and Prodenia litura (tobacco cutworm)